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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/820,154	03/28/2001	Hideo Nakamura	M1596-235	3953	
7278	7590 12/01/2005		EXAMINER		
DARBY & DARBY P.C. P. O. BOX 5257			NGUYEN, LU	NGUYEN, LUONG TRUNG	
NEW YORK, NY 10150-5257			ART UNIT	PAPER NUMBER	
			2612		
		DATE MAILED: 12/01/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summany						
		09/820,154	NAKAMURA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		LUONG T. NGUYEN	2612			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE is not soft time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. The preriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
2a)□	Responsive to communication(s) filed on <u>27 Oc</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□	Claim(s) 4-18 and 22-27 is/are pending in the a 4a) Of the above claim(s) is/are withdrav Claim(s) is/are allowed. Claim(s) 4-18, 22-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers	vn from consideration.				
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Ex	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objected to be a second or the drawing(s) is objected to be a second or be a secon	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	nder 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment		<u>_</u>				
2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary (Paper No(s)/Mail Dail 5) Notice of Informal Pail 6) Other:	te			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/27/2005 has been entered.

Response to Arguments

2. Applicant's arguments filed on 9/28/2005 have been fully considered but they are not persuasive.

In re page 10, Applicants argue that Smith does not disclose an image capturing apparatus having two optical systems receiving light from two separate light paths that can also correct image differences.

In response, regarding claim 22, Applicants recited limitation "said processing means correcting a difference in an image capturing position between said first optical system and said second optical system." The Examiner considers that claim 22 as recited still does not distinguish from Smith patent. Smith discloses image optical section 20 (first optical system) and viewfinder optical section 16 (second optical system), which have different focal lengths (zoom positions), which corresponds to "difference in an image capturing position between said first optical system and said second optical system." Due to the different focal lengths of the two

optical sections, microprocessor 52 controls zoom setting and control the image-taking lens 20 to track along with the desired zoom, until the final image is captured (Figure 1, Column 4, Lines 45 – Column 5, Lines 20, Column 5, Lines 46-60).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 4-15, 22-24, 26 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith (US 5,926,218).

Regarding claim 22, Smith discloses an image capturing apparatus including a first image capturing device (image sensor 22, figure 1, Column 2, Lines 60-67, Column 4, Lines 55-58); said first image capturing device having a first characteristic (full frame high resolution, Column 2, Lines 60-67); a second image capturing device (image sensor 18, figure 1, Column 2, Lines 50-60); said second image capturing device having a second characteristic (low resolution, Column 2, Lines 50-60, Column 4, lines 59-67); said first and second characteristics being different (different sizes and number of pixels, Column 2, Lines 47-67); a recording means for recording image data (image memory 40, Figure 1, Column 3, Lines 25-30, 52-65); a processing means (microprocessor 52 and image data multiplexer 38, Figure 1, Column 4, Lines 7-67) for processing data of images captured by said first image capturing device and data of images captured by said second image capturing device in such a manner that the two types of images

(still image and motion image) are treated as individual images that are independent of each other; a first optical system (imaging optical section 20, Figure 1, Column 3, Lines 5-10; Column 4, Lines 50-53) and a second optical system (viewfinder optical section 16, Figure 1, Column 2, Lines 50-55; Column 4, Lines 45-47); said first optical system supplying first image data from the first subject image light to said first image capturing device (imaging optical section 20 supplies image data to the image sensor 22, Figure 1, Column 2, Line 65 - Column 3, Line 2); said second optical system supplying second image data from the second subject image light to said second image capturing device (viewfinder optical section 16 supplies image data to the image sensor 18, Figure 1, Column 2, Lines 57-65); and said processing means correcting a difference in image capturing position between said first optical system and said second optical system (Smith discloses image optical section 20 and viewfinder optical section 16, which have different focal lengths (zoom positions), which corresponds to "difference in an image capturing position between said first optical system and said second optical system." Due to the different focal lengths of the two optical sections, microprocessor 52 controls zoom setting and control the image-taking lens 20 to track along with the desired zoom, until the final image is captured, Figure 1, Column 4, Lines 45 – Column 5, Lines 20, Column 5, Lines 46-60).

Regarding claims 4, 5, 6, Smith discloses said first image capturing device is used for still image recording (still image obtained from image sensor 22, Figure 1, Column 4, Lines 55-58), and said second image capturing device is used for capturing moving images (image sensor 18 provides live resolution (motion-capable resolution), Column 2, Lines 50-60); said second image capturing device also providing preliminary measurement for use in still image recording (the

low resolution image sensor 18 is able to provide a user-selected zooming image through imaging optical section 20, Figure 1, Column 6, Lines 34-55).

Regarding claims 7, 8, 9, 10, 11, 12, Smith discloses said first and second optical systems for directing light representing an image of a subject to said first and said second image capturing device (Figure 1); said recording means (image memory 40, Figure 1, Column 3, Lines 25-33) for recording data of images captured by said first image capturing device as still images and for recording data of images captured by said second image capturing device as moving images; and a display means (display module 50, Figure 1, Column 3, Lines 35-51) for displaying image data.

Regarding claims 13-15, Smith discloses wherein said first image capturing device is a CCD solid image capturing device of the full-frame transfer type (image sensor 22 is a full frame high resolution CCD, Column 2, Lines 60-67).

Regarding claims 23, 24, Smith discloses an image capturing apparatus comprising a first image capturing device (image sensor 22, figure 1, Column 2, Lines 60-67, Column 4, Lines 55-58); a second image capturing device (image sensor 18, figure 1, Column 2, Lines 50-60) having a second characteristic (low resolution, Column 2, Lines 50-60, Column 4, lines 59-67) different from those of said first image capturing device (image sensor 22 is a full frame high resolution image sensor, Column 2, Lines 60-67); a recording means for recording image data (image memory 40, Figure 1, Column 3, Lines 25-30, 52-65); a processing means (microprocessor 52)

and image data multiplexer 38, Figure 1, Column 4, Lines 7-67) for processing data of images captured by said first image capturing device as still images (still image obtained from image sensor 22, Figure 1, Column 4, Lines 55-58) and data of images captured by said second image capturing device as still images or moving images (image sensor 18 provides live resolution (motion-capable resolution), Column 2, Lines 50-60); a first optical system receiving the first subject image light (imaging optical section 20, Figure 1, Column 2, Line 66 – Column 3, Line 2) and a second optical system receiving the second subject image light (viewfinder optical section 16, Figure 1, Column 2, Lines 50-65; Column 4, Lines 45-47); said first optical system supplying image data to said first image capturing device (imaging optical section 20 supplies image data to the image sensor 22, Figure 1); said second optical system supplying image data to said second image capturing device (viewfinder optical section 16 supplies image data to the image sensor 18, Figure 1); and said processing means correcting a difference in image capturing position between said first optical system and said second optical system (Smith discloses image optical section 20 and viewfinder optical section 16, which have different focal lengths (zoom positions), which corresponds to "difference in an image capturing position between said first optical system and said second optical system." Due to the different focal lengths of the two optical sections, microprocessor 52 controls zoom setting and control the image-taking lens 20 to track along with the desired zoom, until the final image is captured, Figure 1, Column 4, Lines 45 - Column 5, Lines 20, Column 5, Lines 46-60).

Regarding claim 26, Smith discloses said first and second optical systems having lines of sight displaced a distance apart (imaging optical section 20 and viewfinder optical section 16

having optical paths 12 and 10, respectively, displaced a distance apart, Figure 1); and said processing means including means for adjusting at least one of a dimension and a lateral displacement of an image captured by one of said first and second image capturing devices to match an image captured by the other thereof (Column 6, Lines 14-55).

Regarding claim 27, Smith discloses wherein said first optical system and said second optical system supply the image data separately to said first image capturing device and said second image capturing device, respectively (Figures 1 and 2 show that imaging optical section 20 (first optical system) supplies image data to the image sensor 22 (first image capturing device); and viewfinder optical section 16 (second optical system) supplies image data to image sensor 18 (second image capturing device); these two optical systems supply image data separately).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (US 5,926,218) in view of Rhodes (US 6,654,057).

Regarding claims 16-18, Smith fails to specifically disclose wherein said second image capturing means includes a CMOS-type solid image capturing device. However, Rhodes

discloses the using of a CMOS imager for cameras (Column 1, Lines 45-55). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device in Smith by the teaching of Rhodes in order to obtain a camera, which has small size and low cost (Column 1, Line 55 – Column 2, Line 6).

7. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Smith (US 5,926,218) in view of Nonaka (US 5,986,764).

Regarding claim 25, Smith discloses said first and second optical systems having lines of sight displaced a distance apart (imaging optical section 20 and viewfinder optical section 16 having optical paths 12 and 10, respectively, displaced a distance apart, Figure 1).

Smith fails to specifically disclose the processing means including means for calculating a range to an object based on known parameters of said distance and a zoomed field angle. However, Nonaka discloses a distance measurement device to determine the distance L to the subject (a range to an object), which based on the distance B between two lenses (distance apart between the first and second optical systems) and f/x (zoom field angle) as shown in equation (1), Figure 1, Column 5, Lines 10-61). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device in Kubo et al. by the teaching of Nonaka in order to determine the distance to a subject using its image (Column 1, Lines 5-7).

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LUONG T. NGUYEN whose telephone number is (571) 272-7315. The examiner can normally be reached on 7:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NGOCYEN VU can be reached on (571) 272-7320. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LN 11/28/05

> LUONG T. NGUYEN PATENT EXAMINER

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